## RCT7-LTC-4A-RNAM



RCT7, RADIAX® Coaxial Radiating Cable with Bump, 70–960 MHz, tuned foil, 1-5/8 in, black non-halogenated, fire retardant polyolefin jacket

### **Product Classification**

Product Type Radiating cable

Product Brand RADIAX®

Product Series RCT7

General Specifications

**Polarization** Vertical

 Cable Type
 Radiating Mode (RCT) Series

Jacket Color Black
Tape Barrier Mica

**Dimensions** 

Diameter Over Jacket, maximum49.784 mm1.96 inInner Conductor OD18.161 mm0.715 inOuter Conductor OD43.815 mm1.725 in

Nominal Size 1-5/8 in

Recommended Distance from the Wall 101.6 mm | 4 in Recommended Hanger Spacing 1.3 m | 4.265 ft

**Electrical Specifications** 

Attenuation Test Method IEC 61196-4

Attenuation Tolerance ±5%

Cable Impedance50 ohm ±2 ohm

dc Resistance, Inner Conductor1.435 ohms/km | 0.437 ohms/kftdc Resistance, Outer Conductor1.969 ohms/km | 0.6 ohms/kft

COMMSC PE°

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dc Test Voltage 15000 V

**Insulation Resistance** 100000 MOhms-km

Jacket Spark Test Voltage (rms) 10000 V

Operating Frequency Band 50 - 1000 MHz
Optimum Operating Frequency Band 70 - 960 MHz

Peak Power 302 kW

**Stop Bands** 515 – 545 MHz

Velocity 93 %
VSWR Installed, typical, 50–960 MHz 1.3
VSWR on Reel, typical 1.43

#### Attenuation

Frequency (MHz)	Attenuation (dB/100 m)	Attenuation (dB/100 ft)	Coupling Loss 50%	Coupling Loss 95%
75.0	0.5	0.15	63	74
100.0	0.6	0.18	64	77
150.0	0.7	0.21	71	84
350.0	1.1	0.34	72	79
450.0	1.3	0.4	68	72
800.0	1.9	0.58	63	66
900.0	2.2	0.67	63	66
960.0	2.3	0.7	64	69

### Material Specifications

**Dielectric Material** Foam PE

Jacket Material Non-halogenated, fire retardant polyolefin

Inner Conductor Material Corrugated copper tube

Outer Conductor Material Copper foil

### Mechanical Specifications

Minimum Bend Radius, single Bend508 mm | 20 inTensile Strength215 kg | 473.993 lbBending Moment16 N-m | 141.612 in lb

Coupling Loss Test Method IEC 61196-4

**Coupling Loss Tolerance** ±5 dB



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Flat Plate Crush Strength 0.8 kg/mm | 44.798 lb/in Indication of Slot Alignment Yes-bumps face the wall

## **Environmental Specifications**

Installation temperature  $-30 \,^{\circ}\text{C}$  to  $+60 \,^{\circ}\text{C}$  (-22  $^{\circ}\text{F}$  to  $+140 \,^{\circ}\text{F}$ )

Operating Temperature  $-30 \,^{\circ}\text{C}$  to  $+80 \,^{\circ}\text{C}$  (-22  $^{\circ}\text{F}$  to  $+176 \,^{\circ}\text{F}$ )

Storage Temperature  $-30 \,^{\circ}\text{C}$  to  $+80 \,^{\circ}\text{C}$  (-22  $^{\circ}\text{F}$  to  $+176 \,^{\circ}\text{F}$ )

Attenuation, Ambient Temperature 68 °F | 20 °C Average Power, Ambient Temperature 104 °F | 40 °C Average Power, Inner Conductor Temperature 212 °F | 100 °C

Fire Retardancy Test Method IEC 60332-1-2 | IEC 60332-3C-24 | NFPA 130-2010

Smoke Index Test Method IEC 61034

**Toxicity Index Test Method** IEC 60754-1 | IEC 60754-2

Packaging and Weights

**Cable weight** 0.83 kg/m | 0.558 lb/ft

### Regulatory Compliance/Certifications

#### Agency Classification

ISO 9001:2015 Designed, manufactured and/or distributed under this quality management system

